



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

| APPLICATION NO.                                    | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/800,153   | 03/12/2004  | Hisayuki Watanabe    | 9333/370            | 6782             |
| 74980  | 7590        | 01/21/2010           | EXAMINER            |                  |
| ALPINE/BHGL<br>P.O. Box 10395<br>Chicago, IL 60610 |             |                      | TAKLE, MESEKER      |                  |
|  |             |                      | ART UNIT            | PAPER NUMBER     |
|  |             |                      | 2175                |                  |
|  |             |                      | MAIL DATE           | DELIVERY MODE    |
|  |             |                      | 01/21/2010          | PAPER            |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

10/800,153

**Applicant(s)**

WATANABE, HISAYUKI

**Examiner**

MESEKER TAKELE

**Art Unit**

2175

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 22 September 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 7-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 7-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SI/CI)  
Paper No(s)/Mail Date 05/05/2009 and 6/19/2009
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

1. This communication is responsive to the Amendment filed 09/22/2009.
2. Claims 7-26 are pending in this application. Claims 1-6 have been cancelled. Claims 7, 18 and 21 are independent claims. In the instant Amendment, claims 7, 18 and 21 have been amended. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

***Claim Rejections - 35 USC § 103***

3. Claims 7-16 and 18-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kortum (US Pub No.: 2003/0079028) in view of Kamada (US Patent No.: 6,381,637) and in further in view of Ramaswamy (US Patent No.: 6,423,892) and Hashimoto et al. ("Hashimoto" US Patent No.: 6,999,754).

As to claim 7, Kortum discloses a menu screen obtaining unit configured to obtain a menu screen including pieces of link information each associated with different linked servers interconnected with a wireless network (Figure 1, Figure 4, Figure 9 and paragraph [0046]).

However Kortum does not disclose a connection status checking unit configured to check the connection status of each linked server specified by an individual piece of link information included within the menu screen connection status indicating whether content associated with a piece of link information and transmitted the corresponding linked server is wirelessly downloadable or not by the vehicle mounted terminal.

Ramaswamy from the similar field of endeavor disclose a connection status checking unit configured to check the connection status of each linked server specified by an individual piece of link information included within the menu screen connection status indicating whether the corresponding linked server is wirelessly accessible or not by the vehicle mounted terminal (Figure 1, 5, 12, 13-15 and 17 (a & b)).

It would have been obvious to one of ordinary skilled in the art to have modified Kortum's teaching at the time of the invention was made with the teaching of Ramaswamy.

The motivation to combine to provide a wireless application protocol network in data communication with the Internet a wireless MP3 player having circuitry for establishing data communications with the wireless application protocol network and a display for displaying information generated by the music server.

Further Kortum in view of Ramaswamy do not explicitly discloses a menu screen display processing unit configured to display the current connection status of each linked server specified by a respective piece of link information.

Kamada from similar field of endeavor discloses a menu screen display processing unit configured to display the current connection status of each linked server specified by a respective piece of link information (Col., 15, lines, 59-67 and Figure 16 (element 165)).

It would have been obvious to one of ordinary skilled in the art to have modified Kortum's teaching at the time of the invention was made with the teaching of Kamada.

The motivation to combine to provide an information apparatus with an Internet automatic Web browsing function which allows the user to receive information passively,

as with a television, while keeping the operation required when browsing Internet Webs to a minimum.

Further Kortum in view of Ramaswamy and Kamada do not disclose a terminal controller configured to monitor for a plurality of predetermined vehicle conditions of the vehicle on which the vehicle mounted terminal is mounted, wherein when the terminal controller determines that one of the plurality of predetermined vehicle conditions has been satisfied, the terminal controller automatically and without direct human intervention directs the connection status checking unit to dynamically recheck the connection status of each of the linked servers and the menu screen display processing unit to then display the up-to-date connection status of each of the linked servers indicate currently inaccessible linked servers from which information cannot be currently downloaded by the vehicle mounted terminal such that user selection of a piece of link information associated with a linked server that has become inaccessible due to a change in at least one of the plurality of predetermined vehicle conditions can be avoided and user selection of a piece of link information associated with a linked server indicated as being currently accessible results in the vehicle mounted terminal successfully downloading information associated with the piece of link information selected.

Hashimoto from the similar field of endeavor disclose a terminal controller configured to monitor for a plurality of predetermined vehicle conditions of the vehicle on which the vehicle mounted terminal is mounted, wherein when the terminal controller determines that one of the plurality of predetermined vehicle conditions has been satisfied, the terminal controller automatically and without direct human intervention directs the connection status checking unit to dynamically recheck the connection status

of each of the linked servers and the menu screen display processing unit to then display the up-to-date connection status of each of the linked servers indicate currently inaccessible linked servers from which information cannot be currently downloaded by the vehicle mounted terminal such that user selection of a piece of link information associated with a linked server that has become inaccessible due to a change in at least one of the plurality of predetermined vehicle conditions can be avoided and user selection of a piece of link information associated with a linked server indicated as being currently accessible results in the vehicle mounted terminal successfully downloading information associated with the piece of link information selected (such as, In the network IF unit 22 executes a PPP client/server process. In the example of FIG. 2, the dial-up connection processing is executed by controlling the modem when a signal is transmitted from the vehicle 11, and the automatic reception processing is executed as a remote access server through the modem when the signal is received by the vehicle 12. When the signal is received, the user is authenticated relying upon a user ID and a password of the vehicle 11 of the transmitting side relying upon the PAP (personal authentication protocol) or the CHAP (challenge authentication protocol), and a data link based upon PPP is established between the vehicle 11 and the vehicle 12 when the user authentication is completed, col., 3 lines, 65-67 and col., 4 lines, 1-10).

It would have been obvious to one of ordinary skilled in the art to have modified the modified Kortum's connection status indicator at the time of the invention was made with a car-mounted information device as presented by Hashimoto.

The motivation to combine provide a car-mounted information device which makes it possible to obtain information of the transmitting source and of the receiving

end (present positions, destinations, etc.) among vehicles easily and at a low cost, and to realize smooth and comfortable traveling by vehicles.

As to claim 8, Kortum does not disclose wherein the connection server predetermined vehicle condition that triggers rechecking the connection status of each of the linked servers associated with the running state and/or current location of the vehicle is determined to be satisfied when the speed of the vehicle detected by a vehicle-speed determining unit of the vehicle changes and crosses a predetermined value.

Hashimoto from the similar field of endeavor disclose wherein the connection status of the linked server changes when the speed of the vehicle changes and crosses a predetermined value (such as speed data, Figure 15).

It would have been obvious to one of ordinary skilled in the art to modify Kortum's connection status indicator with speed data as presented by Hashimoto.

The motivations to combine provide involve getting various information on a real time basis from movable or fixed type terminals.

As to claim 9, Ramaswamy discloses a communication processing unit for receiving image and/or audio information transmitted from the at least one linked server through radio waves, wherein the predetermined condition vehicle condition that triggers rechecking the connection status of each of the linked servers associated with the running state and/or current location of the vehicle is satisfied when the electric field strength of the radio waves carrying the image and/or audio information received by the communication processing unit is determined to have changed and crossed a

Art Unit: 2175

predetermined reference value by an electric-field strength determining unit of the vehicle mounted terminal (abstract).

As to claim 10, Ramaswamy further comprising a communication medium determining unit for determining a change of (1) a communication medium or (2) a communications mode, the change of communication medium comprising a change between a wireless Local Area Network (LAN) and a mobile telephone by which data is wirelessly received by the vehicle mounted terminal, and a change of communications mode comprising a change of communication bands by which data is wirelessly received by the vehicle mounted terminal, wherein the predetermined vehicle condition that triggers rechecking the connection status of each of the linked servers associated with the running state and/or current location of the vehicle is satisfied when the communication medium determining unit determines that the communication medium or communications mode of wireless communications of the vehicle mounted terminal has changed (abstract and Figure 1).

As to claim 11, Hashimoto discloses further comprising a geographic condition determining unit for determining geographic conditions of a driving location of a vehicle upon which the vehicle mounted terminal is mounted, the geographic conditions of the driving location determinable by the geographic condition determining unit include identified high-rise areas, low-rise residential areas, or mountainous areas, wherein the predetermined vehicle condition that triggers rechecking the connection status of each of the linked servers is satisfied when the type of geographic area



Art Unit: 2175

determined by the geographic condition determining unit changes (such as, predetermined geographical conditions, the present position of the transmitting source and the present position of the receiving end may be limited , see claim 11 and col., 7 lines, 39-41).

Claim 13 is similar in scope to claim 10 respectively, and is therefore rejected under similar rationale.

As to claim 14, Kortum disclose wherein the menu screen has displayable area larger than a display, and the connection status checking unit checks the connection status of each piece of link information included within the entire menu screen which can be selectively displayed in the display by scrolling or page change (such as, 208(scroll bar), Figure 8).

As to claim 15, Kortum discloses further comprising a function of a computer, which can be connected to the Internet, wherein the menu screen obtaining unit receives the menu screen through the Internet (such as, internet connection, page 2, paragraph [0032] line, 5).

As to claim 16, Kortum disclose wherein information transmitted from the linked server includes music data (such as, music, abstract and Figure 8).

Art Unit: 2175

Claim 18 is similar in scope to claim 7 respectively, and is therefore rejected under similar rationale. Hashimoto further disclose terminal is mounted upon a vehicle (such as car mounted information device, see abstract).

As to claim 19, Kortum disclose wherein the predetermined condition is determined to be satisfied when it is determined that the vehicle enters a different type of geographic area by the terminal when a connection status of any linked server changes (paragraph [0056] and Figure 3).

As to claim 20, Kortum disclose wherein information transmitted from an accessible linked server includes music data and the predetermined condition is determined to be when it is determined that a type of road upon which the vehicle is traveling changes satisfied by the terminal whenever another timing interval has elapsed (paragraph [0050], [0047], [0057] and Figure 2).

Claim 21 is similar in scope to claim 7 respectively, and is therefore rejected under similar rationale.

Claim 22 is similar in scope to claim 8 respectively, and is therefore rejected under similar rationale.

Claim 23 is similar in scope to claim 12 respectively, and is therefore rejected under similar rationale.

Claim 24 is similar in scope to claim 11 respectively, and is therefore rejected under similar rationale.

Claim 25 is similar in scope to claim 9 respectively, and is therefore rejected under similar rationale.

Claim 26 is similar in scope to claim 9 respectively, and is therefore rejected under similar rationale.

4. Claim 12 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kortum (US Pub No.: 2003/0079028) in view of Kamada (US Patent No.: 6,381,637), Ramaswamy (US Patent No.: 6,423,892) and Hashimoto et al. ("Hashimoto" US Patent No.: 6,999,754) and in further in view of Nakano et al. ("Nakano" US Pub No.: 2002/0128768).

As to claim 12, Kortum does not disclose vehicle mounted terminal according to Claim 7, further comprising a road determining unit for determining the type of road on which a vehicle, on which the vehicle mounted terminal is mounted, is running, types of road determinable by the road determining unit including expressways, highways, or other types of road, wherein the predetermined vehicle condition that triggers rechecking the connection status of each of the linked servers associated with the running state and/or current location of the vehicle is satisfied when the type of road determined by the road determining unit changes.

Nakano from the same field of endeavor disclose a road determining unit for determining the type of road on which a vehicle, on which the vehicle mounted terminal is mounted, is running, types of road determinable by the road determining unit including

expressways, highways, or other types of road, wherein the connection status of the at least one linked server is determined to have changed when the type of road determined by the road determining unit changes (example, road type such as, the name of the road is changed are set as guide points, detailed information about road shapes, road network data including not only the recommended road but also the other roads, etc, see abstract).

It would have been obvious to one of ordinary skill in the art to have modified Kortum's teaching with the teaching of Nakano.

The motivation to combine to provide a route guide information-distributing system enabling an information center to sufficiently collect information about a path traveled.

As to claim 17, Kortum does not disclose a function of a receiver for receiving information distributed from a broadcast station, wherein the menu screen-obtaining unit retrieves the menu screen stored within a storage device incorporated in the receiver, the receiver being located on a vehicle.

Nakano from the similar field of endeavor disclose, a function of a receiver for receiving information distributed from a broadcast station, wherein the menu screen obtaining unit retrieves the menu screen stored within a storage device incorporated in the receiver, the receiver being located on the vehicle (example, communications unit for transmitting and receiving data from and to the terminal, paragraph [0011] and [0023]).

It would have been obvious to one of ordinary skill in the art to have modified Kortum's teaching with the teaching of Nakano.

***Response to Arguments***

5. Applicant's arguments with respect to the amended claims 7, 18 and 21 have been fully considered but they are not persuasive.

Applicant argues that: (a) the cited portions of Kamada do not disclose dynamically polling a server associated with each link to ensure that the linked content may be currently downloaded (b) Kamada do not disclose displaying "the current connection status of each linked server specified by a respective piece of linked information (c) Hashimoto et al. do not display a visual depiction of the connection status of a plurality of linked servers

The Examiner disagrees for the following reasons.

Per (a), Kamada disclose dynamically polling a server associated with each link to ensure that the linked content may be currently downloaded (such as, the information apparatus may comprise automatic downloading means for automatically acquiring not only the specified document on the Internet but also linked documents through the on-line automatic Web tracing function into the non-volatile storage means, col., 5 lines, 29-35).

(b) Kamada discloses displaying "the current connection status of each linked server specified by a respective piece of linked information (Figure 12 (a-c) (element 125)).

(c) Hashimoto display a visual depiction of the connection status of a plurality of linked servers (such as, the information device of FIG. 3 includes a modem function for effecting transmission and reception of data between the vehicles through a cellular

phone 21 connected to an external unit while setting a circuit by conducting a physical end-to-end radio circuit setting/establishing processing, a mail transmitting/receiving function for transmitting and receiving electronic mail, and a car navigation-linking function for linking information of the received electronic mail to the information of car navigation to output the information to the display in addition Figure 19 schematically illustrates a procedure for making sure that the "request for traffic information" transmitted from the vehicle 11 of the transmitting side is received by a plurality of vehicles 12, 13, etc., on the receiving side without the problem and abstract).

### *Conclusion*

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Art Unit: 2175

**Inquires**

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MESEKER TAKELE whose telephone number is (571)270-1653. The examiner can normally be reached on Monday - Friday 7:30AM-5:00PM est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Bashore can be reached on (571) 272-4088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Meseke Takele/  
Examiner, Art Unit 2175

/William L. Bashore/

Supervisory Patent Examiner, Art Unit 2175